



# USER MANUAL

## KSL3W9

**KANDOLite®**

# I n d e x

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## Summarize

Thank you for purchasing our LED lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misuseage.

## Products introduce

This led KSL39W light is uses aluminum shell, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It takes uses high power R, G, B,3 in 1 kinds of LED. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. International standard DMX 512 signal is requested.

## Packing list

- KKSL1W9 light 1PC
- DMX cable 1PC (sold separately)
- Power Cable 1PC
- The use manual
- Warranty Card

## Safety Information

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

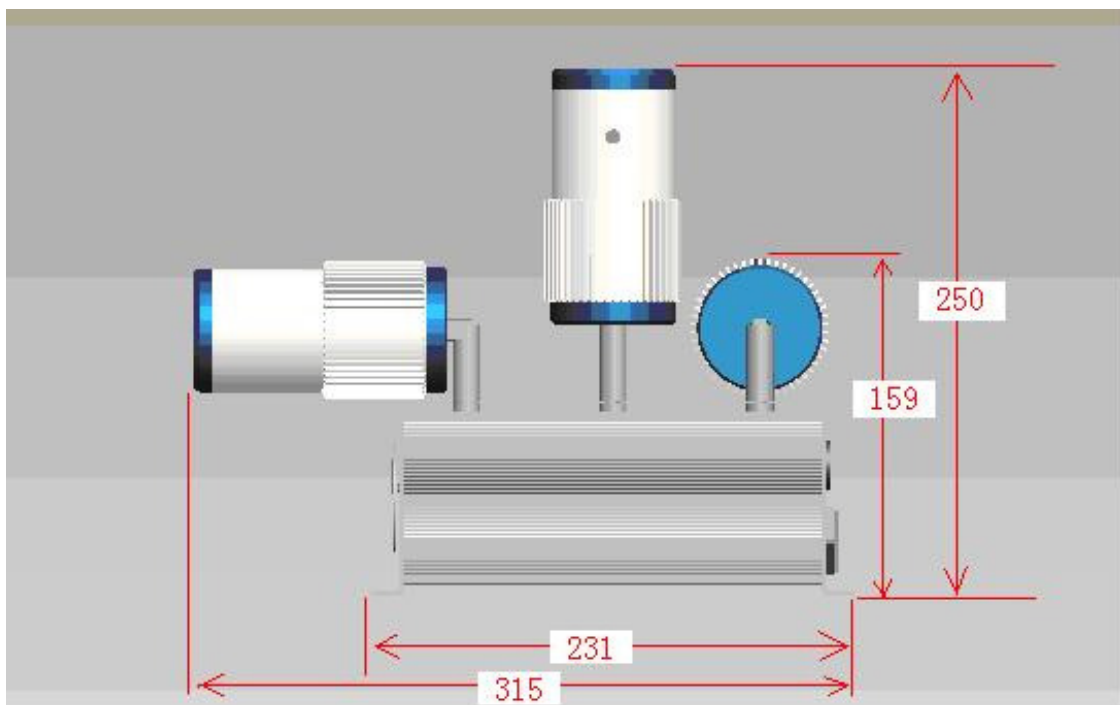
! Avoid direct eye exposure to the fixture when it is on;

## Safety instruction



- Make sure the power supply voltages are consistent with this lights, Ensure the use of voltage is in the range of the request technical parameter.
- before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.
- This light is designed for indoor use, working temperature is lower than 50 degree.
- The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.
- Yellow / green cabling earthling safety; no flicker when the fixture is working on.

## Outside Size Picture



## Main Function

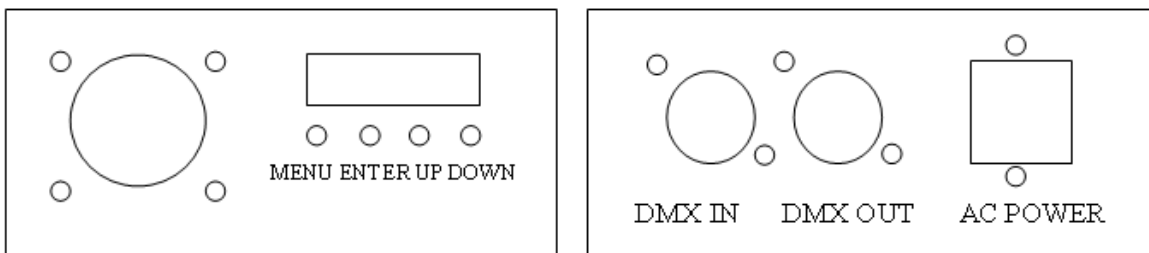
- high quality LED: low consumption, brightness, stable capability and long life
- Each color of LED with 256 dimming. RGB can make over 16.7 million colors
- dim 0%-100%, Strobe、gradual change、jumping change
- DMX512 Controller
- auto run /sound activated/master slave/interconnected multi-machine control
- projecting distance:30m
- DMX512 channels:6 channels

## DMX Control Function

| Channel | DMX Value | Control Function                         |
|---------|-----------|--|
| CH1     | 0—10      | Dimming                                  |
|         | 11—51     | Dimming + strobe                         |
|         | 52—91     | Gradual change                           |
|         | 92—131    | Mode 1                                   |
|         | 132—150   | Mode 2                                   |
|         | 151—169   | Mode 3                                   |
|         | 170—189   | Mode 4                                   |
|         | 190—209   | Mode 5                                   |
|         | 210—229   | Mode 6                                   |
|         | 230—249   | Mode 7                                   |
|         | 250—255   | mutiple Mode 1-7                         |
| CH2     | 0-9       | Red dimming(from one pixel to another)   |
|         | 10-255    | Red general dimming 0-100%               |
| CH3     | 0-9       | green dimming(from one pixel to another) |
|         | 10-255    | green general dimming 0-100%             |
| CH4     | 0-9       | Blue dimming (from one pixel to another) |
|         | 10-255    | Blue general dimming 0-100%              |
| CH5     | 0-255     | Lamp 1 red dimming 0-100%                |
| CH6     | 0-255     | Lamp 1 green dimming 0-100%              |

|      |       |                             |
|------|-------|-----------------------------|
| CH7  | 0-255 | Lamp 1 blue dimming 0-100%  |
| CH8  | 0-255 | Lamp 2 red dimming 0-100%   |
| CH9  | 0-255 | Lamp 2 green dimming 0-100% |
| CH10 | 0-255 | Lamp 2 blue dimming 0-100%  |
| CH11 | 0-255 | Lamp 3 red dimming 0-100%   |
| CH12 | 0-255 | Lamp 3 green dimming 0-100% |
| CH13 | 0-255 | Lamp 3 blue dimming 0-100%  |

## Display Operation



- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increments
- DOWN: menu selection or parameters decrease

## Operating instruction



1. MENU is used to access the menu or return to a previous menu option. It can not be used to select and store the current menu option. Press UP / DOWN to choose a desired menu item. Here are the operation details :

- "addr": DMX mode (A001-A512)
- "SouF": Voice-activated strobe mode
- "SouA": Voice-activated no strobe mode
- "SP"; built-in program speed change model (SP00-SP15, SP00 is the fastest)
- "Pr"; Built-in program (Pr00-Pr15 16 program in all)

- "ASC": seven colors jumping (AS00-AS15 speed adjustable)
- "FADE": gradual change model (FA00-FA15 speed adjustable)
- "FLAS": white color strobe (FL00-FL15 speed adjustable)
- "rL": red dimmer (r000-r255,, r255 is the brightest)
- "gL": green dimmer (g000- g255, g255 is the brightest)
- "bL": blue dimmer (b000- b255, b255 the brightest)

2. Press ENTER to access the further menu setting. This process can be saved automatically; that means you will enter the process saved previously when you activate the light next time. For example, if you want to choose DMX mode A001, operate as follows:

- Press MENU, go back to the initial setting
- Press UP / DOWN until Addr
- Press ENTER to choose, the display will glinting at this moment
- Press UP / DOWN to change the address code to select A001
- Press ENTER to select and store the current menu options. DMX mode will be
- Stored automatically and the screen will stop glinting.

3. Details of program built inside (Pr- -)

- Press MENU, go back to the initial setting
  - Press UP / DOWN until Pr--
  - Press ENTER to choose, the display will glinting at this moment
  - Press UP / DOWN to change the address code to select pr00
  - Press ENTER to select and store the current menu options. DMX mode will be
  - Stored automatically and the screen will stop glinting.
- |                   |            |                  |
|-------------------|------------|------------------|
| • Pr00:red;       | Pr01:green | Pr02:blue        |
| • Pr03:amber      | Pr04:cyan  | Pr05:purple      |
| • Pr06:white;     |            | Pr07:red+strobe; |
| Pr08:green+strobe |            |                  |

- Pr09:blue+strobe;                      Pr10:amber+strobe;
- Pr11:cyan+strobe
- Pr12:purple+strobe;                      Pr13:white+strobe;
- Pr14:RGB jumping change;      Pr15: 7 colors jumping change;

**Note:**

Pr7--- Pr15 Can change the content Of SP, correct the speed of jumping change , SP00 is the fastest, SP15 is the slowest

## Operating Control Instruction

### Master/Slave

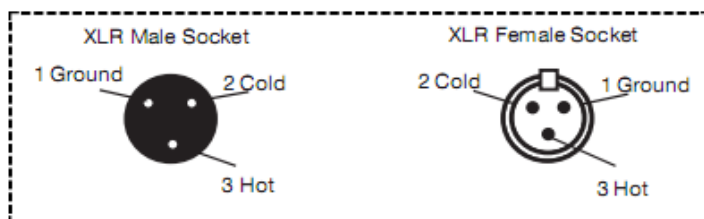
Master: The master should set as built-in program and shows" P - X – X" send out synchronization signals. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters should increase a signal amplifier.

Slave: It must be in the SLAV mode and the address code should be A001 to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

## XLR cable connecting

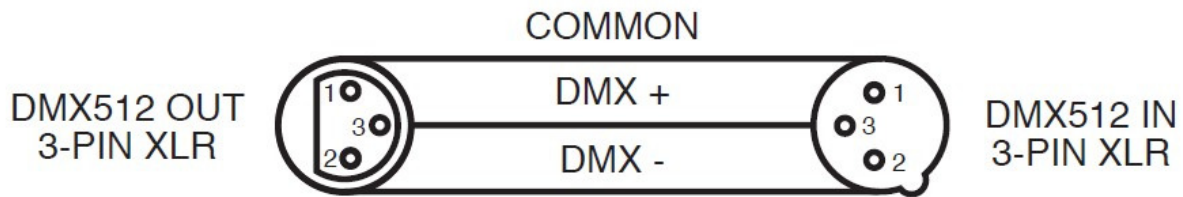
### XRL cable:

The stand connection way of the XRL is: one end connects to the male plug, and the other connects to the female.



| XLR Pin Configuration              |
|------------------------------------|
| Pin 1 = Ground                     |
| Pin 2 = Data Compliment (negative) |
| Pin 3 = Data True (positive)       |





Noted In order to avoid failures and interference signal transmission we connect a resistance  $120\Omega$   $1/4W$  at the end of the DMX connecting as below:



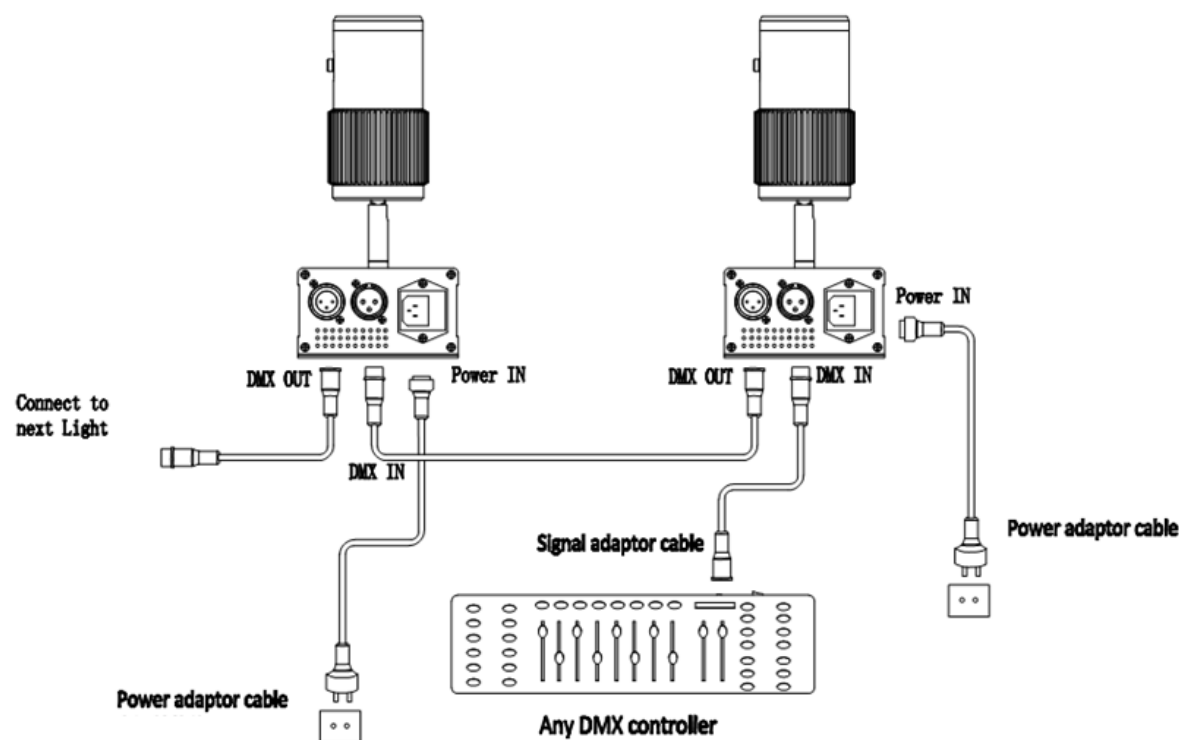
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance  $120\text{ Ohm } 1/4\text{ W}$ ) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

#### The Conversion between 3pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

| 3-Pin XLR to 5-Pin XLR Conversion |                        |                     |
|-----------------------------------|------------------------|---------------------|
| Conductor                         | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield                     | Pin 1                  | Pin 1               |
| Data Compliment (- signal)        | Pin 2                  | Pin 2               |
| Data True (+ signal)              | Pin 3                  | Pin 3               |
| Not Used                          |                        | Do Not Use          |
| Not Used                          |                        | Do Not Use          |

# Connecting picture



## Problem Analyze

| Problem                   | Checking way   |
|---------------------------|--|
| Can not turn on the light | <ul style="list-style-type: none"> <li>◆ Check the power source plug is in normal or not</li> <li>◆ Check the switch of the lights is off or on</li> <li>◆ Check it the fuse if in normal</li> </ul>   |
| DMX can not control it    | <ul style="list-style-type: none"> <li>◆ Check the DMX cable is connect to the lights or not</li> <li>◆ Check the DMX512 controller work in normal or not</li> <li>◆ Check the DMX cable is normal or not</li> <li>◆ Check if the lights is in DMX mode (A001 )</li> </ul>   |
| Display not bright        | <ul style="list-style-type: none"> <li>◆ When connect to the electricity did the led flash one time?<br/>If so the power source is normal; If not please check if the switch and the transformer has power out</li> <li>◆ Check if the power input of the IC board is normal</li> <li>◆ Check if the cable connect to the display loose</li> <li>◆ Change the main board to see if it is normal.</li> <li>◆ Chang the display</li> </ul> |
| LED not light             | <ul style="list-style-type: none"> <li>◆ When connect to the electricity did the led flash one time?<br/>If so the power source is normal; If not please check if the switch and the transformer has power out</li> <li>◆ Check if the power input of the IC board is normal</li> <li>◆ Check if the cable connect to the display loose</li> <li>◆ Change the main board to see if it is normal.</li> <li>◆ Chang the display</li> </ul> |
|                           | <ul style="list-style-type: none"> <li>◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose</li> </ul>  |

|  |  |
|--|--|
| Some of the LED not light                  | <ul style="list-style-type: none"> <li>◆ Use the multimeter to check if the led is bright or not, of not, please change the led</li> <li>◆ check whether current limiting resistor is normal or not</li> <li>◆ Check constant current IC is normal or not (compared with the normal IC)</li> </ul> |
| Single color leds always bright/not bright | <ul style="list-style-type: none"> <li>◆ Check the switch of this color is normal or not</li> <li>◆ Change the IC control board</li> </ul>   |

Noted: only professional persons can do as above !

## Technical Specification

- Input voltage: 220V/50HZ
- Consume: 45W
- Lamp Type: High Power LED
- Lamp Spec: 3-in-1 9W 3PCS
- Control Signal: DMX512, sound activated ,auto run
- Control mode: DMX/ auto run/sound activities / master and slaver
- Beam Angle: 12°
- Projecting distance: 30m
- Projecting angle(Y axis 0-90°, X axis 0-360°)
- Channel: 13CH
- Function Effect: dimmer, strobe, eotic, gradual change
- Fine focusing knob
- Size: 231\*145.5\*250MM
- Net Weight: 3.8KG

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